

WHAT IS CLAIMED IS:

Sub A9) 1. A role managed collaborative learning support system for collaborative learning between a learning management server and a plurality of clients via a network, wherein:

said client comprises resource operation transmission means and resource display means, said resource transmission means transmitting a request for a resource operation together with a learner ID for identifying a learner using said client, to said learning management server;

said learning management server comprises resource operation means for operating resources of said learning management sever in accordance with the request by said client, resource reference means for notifying said client of the contents of the resources, and operation interpretation means for interpreting the meaning of the resource operation request sent to said resource operation means;

said learning management server further comprises activity model data representative of a set of role names and a set of links indicating behaviors between the role names, a role table storing a correspondence of each learner ID and resource relative to each role name, and an operation interpretation table to be used for interpreting the request sent from said resource operation transmission means of said client to said resource operation means as behaviors

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between the resources;

said resource operation means of said learning management server converts the request sent from said resource operation transmission means of said client into behavior descriptive data representative of behaviors between resources and learner ID's by using the operation interpretation table, and inquires said operation interpretation means whether an operation corresponding to the behavior descriptive data is permitted;

said operation interpretation means refers to said role table to check whether there is a role name assigned to the learner ID and resource and being coincident with the contents of the activity model data to thereby judge whether the request is permitted, and returns judgement results to said resource operation means; and

if the judgement results indicate a permission, said resource operation means operates the resource, and said resource display means of said client receives resource operation results from said resource operation means and displays the resource operation results.

2. A role managed collaborative learning support system according to claim 1, wherein a plurality of activity model data sets is provided, and said operation interpretation means notifies said resource operation means of a permission of a request operation

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if the behavior descriptive data representative of behaviors between resources and learner ID's is coincident with any one of the activity model data sets.

3. A role managed collaborative learning support system according to claim 2, wherein:

monitoring status display means is connected to the network;

said learning management server comprises an activity log for storing behavior interpretation data including the behavior descriptive data of the request sent to said resource operation means and role name assignment when there is a match with the activity model data, and said resource operation means writes the behavior interpretation data when the resource is operated; and

said learning management server comprises learning status monitoring means, said learning status monitoring means making said monitoring status display means display the contents of the activity log.

4. A role managed collaborative learning support system according to claim 3, wherein said learning management server comprises monitoring condition data, said learning status monitoring means evaluates a condition in the monitoring condition data when the activity log changes, and if the evaluated condition is satisfied, notifies this fact to said monitoring status display means, and said monitoring status display means

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displays an activity status.

5. A role managed collaborative learning support system according to claim 2, wherein:

said learning management server comprises a resource management procedure table in place of the operation interpretation table; and

said resource management procedure table has a plurality of resource operation specification data sets each including an operation pattern, an interpretation method and an operation method, and said resource operation means searches the resource operation specification data having the operation pattern matching the received request from said resource management procedure table, executes the corresponding interpretation method to form behavior interpretation data, inquiries said operation interpretation means whether an operation corresponding to the behavior interpretation data is permitted, and if permitted, operates the resource by using the operation method written in the resource operation specification data.

6. A resource access privilege management server for collaborative learning between a learning management server and a plurality of clients via a network, said server comprising:

a table for storing a correspondence between each learner name and a role and an operation table storing a correspondence between an operation request

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and a behavior name; and

means for determining an access privilege to resources of the learning management server in response to a client request, by referring to said tables and in accordance with an activity model made of a set of role names and a set of links representative of behaviors between role names.

7. An access privilege management method to be performed by a learning management server of a collaborative learning support system for collaborative learning between the learning management server and a plurality of clients via a network, said method comprising steps of:

preparing a table for storing a correspondence between each learner name and a role and an operation table storing a correspondence between an operation request and a behavior name; and

determining an access privilege to resources of the learning management server in response to a client request, by referring to the tables and in accordance with an activity model made of a set of role names and a set of links representative of behaviors between role names.

8. A computer executable program for realizing the access privilege method according to claim 7.

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